SEQUENCE LISTING

<110> IMHOF, BEAT ALBET
AURRAND-LIONS, MICHEL

<120> VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR FUNCTION

<130> 11422/0264679

<140> 09/524,531
<141> 2000-03-13

<150> EP 99.200746.8
<151> 1999-03-11

<160> 22

<170> PatentIn Ver. 2.1

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<220>
<223> Description of Artificial Sequence: primer

<220>
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<222> (6)
<223> a, t, c, g, other or unknown

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<223> a, t, c, g, other or unknown

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<223> a, t, c, g, other or unknown

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<220>
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gaggtacttg catgtgct 18

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<212> DNA
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<220>
<223> Description of Artificial Sequence: primer

<400> 5
cgacaggtgt cagataaca 19

<210> 6
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<212> DNA
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<220>
<223> Description of Artificial Sequence: primer

<400> 6
caccctcctc actcgt 16

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer used
for detection of JAM-2 transcript

<400> 7

gactcacaga caagtgac 18

<210> 8
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<220>
<223> Description of Artificial Sequence: primer used
for detection JAM-2 transcript

<400> 8
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<210> 9
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer for
Hprt cDNA

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gttggataca ggccagactt tgttg 25

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<223> Description of Artificial Sequence: primer for
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<210> 11
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<212> DNA
<213> Mus musculus

<400> 11
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aattccaatc taaaaaaaaa aaa 1943

<210> 12
<211> 1631
<212> DNA
<213> Mus musculus

E1

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<212> PRT

<213> Mus musculus

<400> 13

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Asn Leu Lys Ser Ser Asn Arg Asn Pro Val Val His Glu Phe Glu Ser
         35                  40                  45

Val Glu Leu Ser Cys Ile Ile Thr His Ser Gln Thr Ser Asp Pro Arg
     50                  55                  60

Ile Glu Trp Lys Lys Ile Gln Asp Gly Gln Thr Thr Tyr Val Tyr Phe
 65                  70                  75                  80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly
                 85                  90                  95

Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile
            100                 105                 110

Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu
        115                 120                 125

Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys
    130                 135                 140

Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys
145                 150                 155                 160

Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
                165                 170                 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn
            180                 185                 190

Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala
        195                 200                 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
    210                 215                 220

Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu
225                 230                 235                 240

Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu
                245                 250                 255

Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe
            260                 265                 270

Ile Ser Ser Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His
        275                 280                 285

Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His
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Lys Ser Ser Phe Val Ile
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305 310

<210> 14
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<212> PRT
<213> Mus musculus

<400> 14
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Lys Asp His Arg Gln Glu Val Thr Val Ile Glu Phe Gln Glu Ala Ile
35 40 45

Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp
50 55 60

Lys Lys Val Gly Gln Gly Val Ser Leu Val Tyr Tyr Gln Gln Ala Leu
65 70 75 80

Gln Gly Asp Phe Lys Asp Arg Ala Glu Met Ile Asp Phe Asn Ile Arg
85 90 95

Ile Lys Asn Val Thr Arg Ser Asp Ala Gly Glu Tyr Arg Cys Glu Val
100 105 110

Ser Ala Pro Thr Glu Gln Gly Gln Asn Leu Gln Glu Asp Lys Val Met
115 120 125

Leu Glu Val Leu Val Ala Pro Ala Val Pro Ala Cys Glu Val Pro Thr
130 135 140

Ser Val Met Thr Gly Ser Val Val Glu Leu Arg Cys Gln Asp Lys Glu
145 150 155 160

Gly Asn Pro Ala Pro Glu Tyr Ile Trp Phe Lys Asp Gly Thr Ser Leu
165 170 175

Leu Gly Asn Pro Lys Gly Gly Thr His Asn Asn Ser Ser Tyr Thr Asn
180 185 190

Glu His Glu Ser Gly Ile Leu Gln Phe Asn Met Ile Ser Lys Met Asp
195 200 205

Ser Gly Glu Tyr Tyr Cys Glu Ala Arg Asn Ser Val Gly His Arg Arg
210 215 220

Cys Pro Gly Lys Arg Met Gln Val Asp Val Leu Asn Ile Ser Gly Ile
225 230 235 240

Ile Ala Thr Val Val Val Val Ala Phe Val Ile Ser Val Cys Gly Leu
245 250 255

Gly Thr Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser
260 265 270

Phe Gln Lys Gly Ser Pro Ala Ser Lys Val Thr Thr Met Gly Glu Asn
275 280 285

Asp Phe Arg His Thr Lys Ser Phe Ile Ile
290 295

<210> 15
<211> 310
<212> PRT
<213> Homo sapiens

<400> 15
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1 5 10 15

Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser
35 40 45

Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg
50 55 60

Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe
65 70 75 80

Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Ala Glu Ile Leu Gly
85 90 95

Lys Thr Ser Leu Lys Ile Trp Asn Val Thr Arg Arg Asp Ser Ala Leu
100 105 110

Tyr Arg Cys Glu Val Val Ala Arg Asn Asp Arg Lys Glu Ile Asp Glu
115 120 125

Ile Val Ile Glu Leu Thr Val Gln Val Lys Pro Val Thr Pro Val Cys
130 135 140

Arg Val Pro Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys
145 150 155 160

Gln Glu Ser Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
165 170 175

Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn
180 185 190

Ser Ser Phe His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala
195 200 205

Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
210 215 220

Ala Gly Ser Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu
225 230 235 240

Asn Ile Gly Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu
245 250 255

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Ala Leu Ile Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe
            260                 265                 270

Ile Asn Asn Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro
        275                 280                 285

Asp Gly Val Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His
    290                 295                 300

Lys Ser Ser Phe Val Ile
305                 310
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<210> 16
<211> 212
<212> PRT
<213> Homo sapiens

<400> 16

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             20                  25                  30

Gly Gln Asn Leu Glu Asp Thr Val Thr Leu Glu Val Leu Val Ala Pro
         35                  40                  45

Ala Val Pro Ser Cys Glu Val Pro Ser Ser Ala Leu Ser Gly Thr Val
     50                  55                  60

Val Glu Leu Arg Cys Gln Asp Lys Glu Gly Asn Pro Ala Pro Glu Tyr
 65                  70                  75                  80

Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu Glu Asn Pro Arg Leu Gly
                 85                  90                  95

Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met Asn Thr Lys Thr Gly Thr
            100                 105                 110

Leu Gln Phe Asn Thr Val Ser Lys Leu Asp Thr Gly Glu Tyr Ser Cys
        115                 120                 125

Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg Cys Pro Gly Lys Arg Met
    130                 135                 140

Gln Val Asp Asp Leu Asn Ile Ser Gly Ile Ile Ala Ala Val Val Val
145                 150                 155                 160

Val Ala Leu Val Ile Ser Val Cys Gly Leu Gly Val Cys Tyr Ala Gln
                165                 170                 175

Arg Lys Gly Tyr Phe Ser Lys Glu Thr Ser Phe Gln Lys Ser Asn Ser
            180                 185                 190

Ser Ser Lys Ala Thr Thr Met Ser Glu Asn Asp Phe Lys His Thr Lys
        195                 200                 205

Ser Phe Ile Ile
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210

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<211> 1296
<212> DNA
<213> Homo sapiens

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E1

<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence
surrounding C-terminal cysteine of C2 domain
(endothelial cell line t-end)

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<221> MOD_RES
<222> (4)
<223> Any amino acid

<400> 18
Tyr Arg Cys Xaa Ala Ser
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<210> 19
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence

surrounding the C-terminal cysteine of C2 domain
(endothelial cell line t-end)

<220>
<221> MOD_RES
<222> (4)
<223> Any amino acid

<400> 19
Tyr Gln Cys Xaa Ala Ser
1 5

<210> 20
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence
surrounding the C-terminal cysteine of C2 domain
(endothelial cell line t-end)

<220>
<221> MOD_RES
<222> (4)
<223> Any amino acid

<400> 20
Tyr Tyr Cys Xaa Ala Ser
1 5

E1

<210> 21
<211> 300
<212> PRT
<213> Mus musculus

<400> 21
Met Gly Thr Glu Gly Lys Ala Gly Arg Lys Leu Leu Phe Leu Phe Thr
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Ser Met Ile Leu Gly Ser Leu Val Gln Gly Lys Gly Ser Val Tyr Thr
20 25 30

Ala Gln Ser Asp Val Gln Val Pro Glu Met Glu Ser Ile Lys Leu Thr
35 40 45

Cys Thr Tyr Ser Gly Phe Ser Ser Pro Arg Val Glu Trp Lys Phe Val
50 55 60

Gln Gly Ser Thr Thr Ala Leu Val Cys Tyr Asn Ser Gln Ile Thr Ala
65 70 75 80

Pro Tyr Ala Asp Arg Val Thr Phe Ser Ser Glu Gly Ile Thr Phe Ser
85 90 95

Ser Val Thr Arg Lys Asp Asn Gly Glu Tyr Thr Cys Met Val Ser Glu
100 105 110

Glu Gly Gly Gln Asn Tyr Gly Glu Val Ser Ile His Leu Thr Val Leu

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Val Pro Pro Ser Lys Pro Thr Ile Ser Val Pro Ser Ser Val Thr Ile
    130                 135                 140

Gly Asn Arg Ala Val Leu Thr Cys Ser Glu His Asp Gly Ser Pro Pro
145                 150                 155                 160

Ser Glu Tyr Ser Trp Phe Lys Asp Gly Ile Ser Met Leu Thr Ala Asp
                165                 170                 175

Ala Lys Lys Thr Arg Ala Phe His Asn Ser Ser Phe Thr Ile Asp Pro
            180                 185                 190

Lys Ser Gly Asp Leu Tyr Phe Asp Phe Val Thr Ala Phe Asp Ser Gly
        195                 200                 205

Glu Tyr Tyr Cys Gln Ala Gln Asn Gly Tyr Gly Thr Ala Met Arg Ser
    210                 215                 220

Glu Ala Ala His Met Asp Ala Val Glu Leu Asn Val Gly Gly Ile Val
225                 230                 235                 240

Ala Ala Val Leu Val Thr Leu Ile Leu Leu Gly Leu Leu Ile Phe Gly
                245                 250                 255

Val Trp Phe Ala Tyr Ser Arg Gly Tyr Phe Glu Thr Thr Lys Lys Gly
            260                 265                 270

Thr Ala Pro Gly Lys Lys Val Ile Tyr Ser Gln Pro Ser Thr Arg Ser
        275                 280                 285

Glu Gly Glu Phe Lys Gln Thr Ser Ser Phe Leu Val
    290                 295                 300
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<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence surrounding the C-terminal cysteine of C2 domain (endothelial cell line t-end)

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<222> (2)
<223> Arg, Gln, Tyr, Ser

<220>
<221> MOD_RES
<222> (4)
<223> Any amino acid

<220>
<221> MOD_RES
<222> (8)
<223> Any amino acid

<400> 22
Tyr Xaa Cys Xaa Ala Ser Asn Xaa Gly .
1 5

E1 cont'd